Planning Techniques Analyzed

BY JAY LIPMAN

On Tuesday, January 16, Albert Waterston of the Interna-
tional Cooperation Seminar on the experience of other
countries in making. Among developing countries, there
are typical problems and sector has succeeded in carry-
ning out reasonably adequate targets." (The country is Yug-
slavia.) "Some countries with very central planning (such
as Israel and Mexico) have been growing faster than many coun-
tries with more central planning."

Implementation Falls

The forecast for failure of planned economies in many
countries with rich natural re-
sources is a lack of leadership.

(Continued on Page 2)

Notices

MOBILGAS WANTS OBSERVERS

Students interested in par-
ticipating as USAC in the break-in runs for the 1962 Mobil-
gas Economy Run should register in the Industrial Associa-
tions Office, Room 119, on or before Monday,
January 25.

FREE FOR REPRINT SHOT

Flu shots are still available to students, faculty, and staff,
and will be administered by Dr. Fred Fleming. Nurses will be
in the lobby. The nurse will ask if you have had the flu.

ASCIT ASPIRANTS TO MEET

Next Thursday, January 28, ASCIT officers are invited to an infor-
mation meeting next Monday, January 25, at 12:15 in the ASCIT Board
room, lower Fluming.

DINERS SET LINDWALL

Dr. Frederick Lindwall will speak at the January 29 meeting of the Y Dinners’ Club. Dinner will begin at 6:30 p.m. in Chandler Dining Hall.

DEMS PLAN DEBATE, FILM

The Caltech Young Democrats will meet at 3:00 p.m. in 206 Dabney. The topics for the debate are "Kissinger’s Condition: Our Challenge and Freedom in Our Schools." The affirmative team is for "Protest of the Power of Rod China," which has been shown in L. A. schools, will be shown.

DANGERS TO TROT

A Trotting Class will resume on Thursday, February 4, from 8:30 to 9:30 p.m. The classes will be held in the Audubon Hall, and are announced. It will be the students who come to the class who have little dancing instruction, but pro-


YMCA Brings Pike As First Leader

BY RICHARD KARP

"Feeling that the job of cir-
culation manager is perhaps the most important job that exists
on the California Tech, I have devoted my time uselessly, to
research, reading, study, and study, to carry out my duties in this
important office. Also, my last statement was a lie." This
sentiment was recently express-
ed by Howard Monell, this year’s circulation manager of the
Tech.

Monell’s duties as circulation manager include mailing of the California Tech to subscribers of campus. Of the approximately 100 copies of the Tech that are sent off campus, Monell reports that about 80% go out of the state.

Other duties that Monell has
taken on include: cashier dis-
tribution of the paper each
term, and enforcement of the
rules of the California Tech.

Monell, then, is a man of
more responsibility than is on-
llety. In the past two years, Monell’s job as circulation manager is unusual in that the Tech has not been distributed
to subscribers until the end of the term, making the news somewhat stale. This year, circu-
lation copies of the paper are mailed by Thursday afternoon.

Along with his circulation du-
ties, Monell is also in charge of collecting money for subscrip-
tions and seeing that the Tech gets out each week, something which has not been done
since 1958. Monell’s opinions can be best be summed up by his state-
ment of his feelings given to me at the end of the interview: "Eight hall in corner pocket."

Winter Formal Coming Soon

The ASCIT Winter Formal will be held on Friday, February 9, from 8 to 11. A live band, with play for the dance, which will be held at the Bever-
y Hills Hotel.

Golden has performed a great deal previously in Southern California; he has an album en-
titled "The Horn and I." With his six-piece orchestra he will
be featuring some favorite tunes.

The dress for the dance will be formal, and it is sug-
An Atheist

While at Santa Clara, Pike debated many points of religion
with his instructors, becoming convinced that there were two major issues — birth control and papal infallibility. As a result, he became a confessed atheist, and transferred to UCLA. After a short time there, he transferred again, this time to USC. He graduated from there in 1942, after doing some important research into the laws of California.

Pike went to Law School at Yale, and received a doctorate in Science in 1947. He worked for a time for both the Securities Exchange Commis-

Paperboy of the Month

Howard Monell, the California Tech’s staunchest Scruffy
before addressing a week’s outgoing issues.

(Pictured at Anaheim)
It would like to take space to remind those students who anticipate being subject to the draft before the end of the aca­demic year, 1962-1963, that taking the College Qualification Test this April may be very important in getting student defer­ments. Although certain people get deferments on the basis of high academic ranking in their class, a great many Col­lege students are prime draft targets unless they prove their college standing high on the test, a readily easy thing for Techmen.

More information on deferments can be obtained by writing to your local draft board. Application forms for the test will be available in all departments of the college later this month. Watch the California Tech for the date of the test.

Silver: ‘Alliance’ Buys Time For Latin-American Growth

BY MATT COUCH

Silver’s philosophy is that, in order to advance Latin America, the Alliance for Progress in Latin America must grow considerably and expand and become one of the goals of the Eisenhower administration, in the same manner as the ‘Y’ and the universities. Dr. Silvert, according to the Alliance, is, according to Silver, upon the present basis, the great social and economic revolution in the United States.

The chief reason for the vir­tual failure of U.S. aid programs in Latin America until now has been the implicit faith in the in­jection of massive capital into an econ­omically backward area. This economic structure would cause the beneficiary to become dependent on the same area throughout the economy. Of course, it is common knowledge that many Latin American countries are suffering from underdeveloped economies. In this context, it is important to note that the Alliance has been established in order to help the beneficiaries to become economically advanced without dependency on the United States.

Fidelismo

When questioned by the Inter­national Relations Society on the present prospects for leftist (Fidelista) revolutions in Latin America, Silver stated that the greatest dangers lie in Cuba-like nations where the prospects for leftist revolution overwhelm all of Latin America. This process is called “Fidelismo” and it is defined as a movement that is directed towards the establishment of a socialist society based on the principles of Marxism-Leninism.

Aerosol Size, Mass Measured

Forests, fields, oceans and deserts are continuously present over the earth, and aerosols may stay in the atmosphere for years. They can be a threat to human health and other living things. Gray’s vapid role it’s rather hard to believe that we are now talking about the prospects of the latent nuclear threat.

Conference

The Conference is expected to attract a large number of students and faculty members from different campuses. It is an excellent opportunity for students to interact with professionals in the field and to gain valuable insights into the latest developments in the area of mathematics.

Tech Coop Lecture

The lecture was attended by a large number of students and faculty members. The speaker, Dr. Richard Smith, discussed the importance of the use of computers in scientific research. The lecture was well received and it was agreed that it was an excellent opportunity for students to learn more about this important field.
The crux of the play is to take the proper finesse first. As the opening, the club finesse can be avoided. Two hands lie, a club opening sets the contract, but with the spade holding: a small diamond is led. When the king holds: him himself. The crux of the play is to take the proper finesse first. As the opening, the club finesse can be avoided. Two hands lie, a club opening sets the contract, but with the spade holding: a small diamond is led. When the king holds: him himself.
California Weather Confuses Easterner

BY J. C. SIMPSON

California is one of the few states where the Union's weather comes packaged with a lifetime, one-way Western guarantee. Anyone on the East Coast who doesn't believe that the Western weather in California is the most idyllic part of the balmy South Pacific islands can readily realize the magnitude of this error by simply consulting the ever-vigorous Chamber of Commerce.

Amply assured of golden sunshines and perpetually warm weather, the Easterner arrives in L. A. airport equipped with a multitude of Harlequin and knit shirts. However, he also retains a few heavy woolen articles in the bottom of his luggage, a small assurance made necessary by remembrances of barometric insecurity back home.

Blue Skies . . .

Like as not, the new Easterner finds sunny degree weather and clear blue skies, as he drives into Caltech for registration, marvelling at the majestie grandeur of the mountains. Not until he awakens the next morning does he realize that the mountains have disappeared behind a thick morning mist, and not until he walks outside does he realize that this thin morning mist hangs around all day for most of the year, and is affectionately known to residents as fog.

Rare.

The next thing one realizes is that just any Southern Californian will admit that it surely does rain in their lovely paradise. After all, any Chamber of Commerce is prone to slight exaggeration. Of course, the inquirer quite quickly realizes that the rain is very rare, and occurs mostly at night, anyway, almost solely during the winter.

After a period of huffiness blits in the predicted sunshine, and a few covered glimpses of the mountains, the Easterner notices that winter has arrived. This of course, is done not by a sudden drop in temperature, for there is more, but by the ominous coming of the rain. It seems that the overall probability of rain is almost the only indication of bad weather in Southern California.

Winter Comes.

The rain, too, one finds, in those "rare" times when it does come, manages to pick the most inconvenient times, with a great preference for weekends. This makes it all the more amusing, and plants a faint shadow of doubt in the mind of our faithful Easterner.

Snow? You're Kidding.

Then, awakening one morning, the Easterner sees a familiar white scarf covering the slopes of the nearby mountains (which are suddenly visible), and his heart is struck to the core. As he is slowly realizing that even the rain is more than the infallible Chamber of Commerce would like to admit, he discovers that snow is predicted for his own fair city. This is surely the last bow.

The result of such obviously reactionary weather is usually a movement to crusty selected members of the beloved Chamber of Commerce, accompanied by an intensification of the ever-present urge to get back across the great Muddy. Some Easterners who have come (Continued on page 5)

Learning never stops for engineers at Western Electric

There's no place at Western Electric for engineers who feel that college diploma signifies the end of their education. However, if a man can meet our quality standards and feels that he is really just beginning to learn . . . and he is ready to launch his career where learning is an important part of the job and where graduate and on-the-job training are a real job, he is encouraged . . . we want and need him.

In addition to the normal learning-while-doing, engineers are encouraged to move ahead in their fields by several types of educational programs. Western maintains its own full-time graduate engineering training courses, seven formal management courses, and a tuition refund plan for off-duty study.

This learning atmosphere is just one reason why a career at Western Electric is stimulating. Of equal importance, however, is the nature of the work we do. Our new engineers are trained to projects that implement the whole art of modern telephony, from high-speed sound transmission and solar cells to with-the-moment crystal-controlled production techniques.

Should you join us now, you will be coming to Western Electric at one of the best times in the company's history. In the management area alone, several thousand supervisory jobs are expected to open up to W. E. people within the next 10 years. And our work of building communications equipment and systems becomes increasingly challenging and important as the telecommunications needs of our nation and the world continue to increase.

Challenging opportunities exist now at Western Electric in such fields as Marketing, Industrial, Finance, and Commercial Engineering. In addition, we also have many opportunities in technical areas of engineering and in technical administration.

We are currently offering an excellent opportunity for engineers who are interested in obtaining advanced technical training. If you are interested in technical training, we can arrange for you to attend the Teletype Corporation, 38, New York, N. Y., for a 14-week course in electronic theory and practice. This course is one of the best available in the country and is designed to give the engineer a complete understanding of the electronic equipment. The course is at the college level and is intended for engineers who are interested in electronics as a career. The course is sponsored by the Teletype Corporation and is conducted by the well-known electronics experts of the company. The course covers all aspects of electronic theory and practice, and includes practical laboratory work. The course is held in New York City, and the cost is $200 per week. The course begins on September 3rd and runs for 14 weeks. The course is open to all engineers who are interested in electronics as a career.

We offer a variety of opportunities for engineers in the fields of communications, electronics, and electrical engineering. We are currently offering an excellent opportunity for engineers who are interested in obtaining advanced technical training. If you are interested in technical training, we can arrange for you to attend the Teletype Corporation, 38, New York, N. Y., for a 14-week course in electronic theory and practice. This course is one of the best available in the country and is designed to give the engineer a complete understanding of the electronic equipment. The course is at the college level and is intended for engineers who are interested in electronics as a career. The course is sponsored by the Teletype Corporation and is conducted by the well-known electronics experts of the company. The course covers all aspects of electronic theory and practice, and includes practical laboratory work. The course is held in New York City, and the cost is $200 per week. The course begins on September 3rd and runs for 14 weeks. The course is open to all engineers who are interested in electronics as a career.
graduate
rattle

BY FLETCH MURPHY

Last Saturday saw the Braun Bombers fly on undefeated as the Moher Mashers flunked their first test. In basketball, 46-26, Braun had discouraged the athletic scholarships suspended.

Parking Problems

With the Physical Plant issuing stickers exponentially faster than they're painting stripes, the hunt for parking places is getting as bad as trying to find the front page of the I, A. Times on Sunday afternoon or a glass in the kitchen. But it's a good thing studywise.

Weather

(Continued from page 4)

If you're interested in joining, see Bob Bump (Rickotta), Bill Reting (Dabney), or Bill Burke (Fliekt) before the aforesaid Shop changes its mind.

Weather

(Continued from page 4)

If you're interested in joining, see Bob Bump (Rickotta), Bill Reting (Dabney), or Bill Burke (Fliekt) before the aforesaid Shop changes its mind.

ENGINEERS... SCIENTISTS

You are cordially invited to attend a private interview with a Special Representative of Lockheed Missiles & Space Company. Objective: Purge mutual interests by examining the almost limitless fields of endeavor being investigated at Lockheed. Lockheed Missiles & Space Company in Sunnyvale and Palo Alto, California, on the very beautiful San Francisco Peninsula, is constantly probing all the sciences related to missiles and space projects. These cover the complete spectrum—from human engineering through celestial mechanics—providing a fascinating challenge to those whose interests lay beyond the ordinary day-to-day job.

Lockheed, Systems Manager for such projects as the Navy POLARIS FBM and the Air Force DISCOVERER and MIDAS Satellites, is also an important contributor to various NASA programs involving some of the nation's most interesting and sophisticated concepts. As one of the largest organizations of its kind, the Company provides the finest technical equipment available; for example, the Sunnyvale facility houses one of the most modern computing centers in the world. Every opportunity is given members of the technical staff to participate in the initiation of advanced technological developments.

Further, Lockheed strongly encourages continuing education and advanced degree work, maintaining two programs in their support.

● Lockheed's Tuition Reimbursement Program remits seventy-five percent of the tuition for approved courses taken by professional and technical people who are working full time.

● The Graduate Study Program permits selected engineers and scientists of outstanding scholarship and professional potential to obtain advanced degrees at company expense while employed on research assignments.

SPECIAL CAMPUS INTERVIEWS will be held Monday FEBRUARY 5

See your placement office for details
Rain Postpones IH Football Season Start

BY ROB LIEBERMANN

Relaxed tension and increased frustration predominated the InterHouse touch football scene this week as rain and cold weather combined to postpone the opening of the 1962 season.

This season appears in prospect to shape up as a tighter race with a much smaller spread from the top of the league to the bottom than was evident last year.

No one team has the overall strength of last year’s Page squad or the explosive quality of Ruddock’s 1961 aggregation.

Predictions of the outcome are premature at this juncture, but here are some things to watch for as the season unfolds: Blacker—strong point is the defense, could be a late bloomer; Duhay—strength lies with former varsity footballers, strong contender if individual efforts are coordinated; Fleming—strength en by refugees from frosh football, could cause many anxious moments for opposition; Lloyd—looks strong in “amateur” division; hard blocking, tough (Continued on page 9)

Cagers Dropped By C-HM, Catch Fire and Burn Azusa

BY RICK WEINGARTEN

The varsity basketballers split two games this week, losing to Claremont at Pomona 83 to 56, and beating Azusa here Tuesday 78 to 62. The team displayed opposite extremes in play from two games this week, losing to was overwhelmed by the team for the entire first half, fell apart in the second half and was a ten-point lead quickly ten shooting of the Catchers Dropped to a team for the entire first half, staying even with the guards. In the first half, good work disappeared, and the side shooting by the Stags, and Noll and good play of the first half. But those extra weekend practice floor Tuesday. Fired up after an only a three-point deficit. In the win by 27 points.

The win was more decisive than the score even showed, for the second and third string played much of the second half and still kept a commanding lead. The team played with confidence and a quick thinking (Continued on page 8)
SPACE, MISSILE & JET PROJECTS
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Assignments include the following areas:

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- **Propulsion**—relating to fluid-mechanics, thermodynamics, internal aerodynamics, environmental—relating to air conditioning, pressurization and oxygen systems

- **Human Factors**—analysis of environment affecting pilot and space crew, design of cockpit consoles, instrument panels and pilot equipment
- **Heat Transfer**—relating to missile and space vehicle structures
- **Structures**—relating to cyclic loads, temperature effects, and the investigation of new materials, methods, products, etc.
- **Aerodynamics**—relating to wind tunnel, research, stability and control
- **Solid State Physics**—relating to metal surfaces and fatigue
- **Space vehicle and weapon system studies**—of all types, involving a vast range of scientific and engineering skills

Get full information at

**INDIVIDUAL ON CAMPUS INTERVIEWS**

with a Douglas representative

Thursday, Feb. 1 and Friday, Feb. 2

We urge you to make an appointment through Dr. Donald S. Clark, Director of Placement. If you cannot, please write to

S. A. Amestoy, Staff Assistant to VP Engineering

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New Location:
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Glendale 3, Calif.

Phone: CI 6-1651

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**artists Plan Caltech Invasion; To Show How Other Half Lives**

Seven art students from Otis Art Institute and other art schools will arrive on campus the first Friday in February to spend the weekend of February 3 and 4 in the Student Houses discussing their art and its application to a scientific world. The art students, four men and three women, will each take their meals in a different House.

Louise
Some of the students have very strong feeling on the relationship of art and science. One of these students is Louise Bowen, 23, and a graduate student at Otis Art Institute. She is devoted to art (ceramics at the present) and imagines to application to a scientific world.

Louise posed the following questions:

"What is a dilettante scientist supposed to get out of a superficial interest in art? Should an artist try to "understand" science and capture the feel of the physicist? What is the significance of art to a scientist?" In other words, should life consist of all-or-nothing thrusts and rote work until he can duplicate it; then hopefully he can surpass his master. Western science has not. Art tends to attract unimaginative hacks who live and work by rote. Science should give original problems—ones whose answers are not known—early in school. As it now, science is considered a closed book and attracts rote-minded people.

Most scientists should have a more sophisticated approach to their science; they think science is good just because it exists. Artists go through courses in art aesthetics and examine their personal goals in becoming artists, both of which build more competent artists with greater powers of observation of greater depth. "What is a dilettante scientist supposed to get out of a superficial interest in art? Should an artist try to "understand" science and capture the feel of the physicist? What is the significance of art to a scientist? In other words, should life consist of all-or-nothing thrusts and attacks into areas, abandoning casual, amateur interests as trivial?"
frets and frails

Men Damned; Women Praised
BY JOHN D. CROSSMAN

The song I have chosen for this week has always been one of my favorites. The song is, naturally, sung by a woman who is somewhat disillusioned with men. When asked the men's reaction to the song one lady from Kentucky said, "The men think we've given them the wrong kind of a deal and it's not justice and they have protested as far back as I can remember." Cogent words!

I have heard three recorded versions (although there are undoubtedly more): one by Pete Seeger on Folkways FA2003, one by Barbara Dane on World Pacific WP-1254, and the third by Joan Baez on Vanguard VRS-9087 (in a version called "Silver Dagger.")

AiResearch Needs Engineers for SPACE ENVIRONMENTAL CONTROL SYSTEMS

AiResearch immediately needs preliminary design, creative board-type designers and hardware development engineers at all levels, with backgrounds in the following disciplines:

- Thermodynamics
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Here is an opportunity to participate in a major expansion of a company which pioneered the space environmental field. Specific experience in space environmental controls is desirable but not necessary. Education requirements are B.S. and up.

Garrett is an "equal opportunity" employer.

Interviewer will be on campus
January 31

The Lawrence Radiation Laboratory is working in the areas of Nuclear Propulsion, Controlled Thermonuclear Reactions, Nuclear Explosives for Industry and Defense, Space Physics, and other advanced problems in Nuclear Physics and Engineering.

ON FEBRUARY 5 & 6
Laboratory staff members will be on Campus to interview outstanding students in the Physical Sciences and Engineering.

Call your placement office for an appointment

LAWRENCE RADIATION LABORATORY
of the University of California
Berkeley and Livermore, California

An artist’s conception of Project Gnome, a step toward providing power and isotopes from underground thermonuclear detonations. This area of endeavor is part of Project Flowshare, initiated at the Lawrence Radiation Laboratory of the University of California. Other Flowshare projects under study include the excavation of an experimental harbor in Alaska, production of oil from tar sands, control of groundwaters, mining applications, and other novel ideas using the energy of nuclear explosives.
Y Slates Second Religion Talk

BY RAY BRIDGE

Caltech YMCA Associate Secretary, Al Green, will give the second of a series of four talks on Christianity, tonight at 7:30 in Wes Hershey’s home.

Last Thursday Al explored the nature of religious experience, and suggested some basic factors underlying such experiences in all of the world’s religions. He defined religious experiences, then went on to examine the nature of the faith of the individual who has had no religious experience himself but has rested his faith on the experiences of others.

Rationality Avoided...

Green avoided the pitfalls of justifying religious experience as the necessary conclusion of a “rational” argument. He remarked that religious faith is irrational, and when it claims to be otherwise it only loses its profundity.

Tonight’s lecture will be concerned with theology, the attempt to express religious experience in a rational context. Hershey’s home is at 391 N. Gilston, almost directly across the street from the graduate houses. Refreshments will be served, and the talk will break up about 9:30.

IH Football

(Continued from page 6)

Defense, and balanced attack characterize this contender; Page – lacks depth, passer’s ability crucial now without the height at end; Ricketts – experience and ability finally coordinated into a formidable defense and potent offense; Reddock – last year’s veterans strengthened by fine frosh crop, has potential to go all the way if offense jells. Overall, an exciting season is predicted; one which will have great moments for all teams and which will provide much enjoyment for the spectators.

Standings to date:

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<th>HOUSE</th>
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<td>Lloyd</td>
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Basketball

(Continued from page 6)

against the Azusa zone defense; and, in fact, showed it was effective against the zone.

Upcoming Games

Next week Tech plays Redlands here on Saturday; then comes the big game here Tuesday evening against the Ocxy tigers. This is virtually the same team which last year beat Ocxy on its own floor, the first time that had been accomplished by Tech in many ages. It could be a close game. Perhaps the Beavers can change their losing ways to gain a respectable though certainly not first-place-league record.
Determined Duo Finally Foiled

Brewins

Note: This text is a continuation of the previous page. It is not clear where the page break occurred. The text is fragmented and does not form a coherent narrative.

Snap!

With ski tow in sight, they edge off road, to tune of snapp­
ing chain. Time out is taken for brief repose in below-freezing

Smog

(Continued from page 5)
tested. The particles were small in size, short-lived, and may

Brewins

Noticing fire in hut at bottom

of lift, they remove skis and

know on door, only to have

ign — Employees Only — keep
them out. Skis are again put on

and freeing friends set out for

but. On finding same, they are

about to shout for help, when

one runs into wall of previously

mentioned building. Disap­
pointed duo return planks and

head for mode of transportation,

only to flood engine, necessitat­
ing one hour of useless work.

Trek back to hut reveals that

glorious smashup has occurred

on lower road, rendering access

impossible. Not wishing to spend

much time trying to start car, the

pair finally decides to trust

mentioned building. Not finding

same, they are

amazed at skill of random

chaining.

Smog

of lift does not dis­

tastify them in the least.

When super skiers reach top,

they buckle on boards and

descend slope — about 10

feet. Deciding that zero visibility

is slightly less than ideal, they

spend the next 30 minutes look­
ing for lift that brought them

up. Desperate is not, but chily.

Warmth

To avoid aerosols originating

from land sources, samples were

taken at sea as far as

off the California coast. These

aerosols were mostly salt

particles from ocean water. It

also was discovered that organic

materials, probably the end pro­

ducts of the life cycles in the

ocean, produce aerosols in enor­

mous quantities. These particles

seem to have a relation to species

life (hours or days), disappear­
ing gradually when exposed to

sunlight. To many respects they

seem to be similar to those pro­

duced by forests and plants.

As would be expected, agri­
cultural areas are rich in plant

life aerosols; deserts, for the

most part, are not.

Cosmic Dust Source Possible

It is possible that these cosmic

dust particles from space are an

additional source of aerosols. Dr.

Owens has found that various federal

agencies are doing work in

determining the aerosol density at

altitudes between about

40,000 feet and 120,000 feet, the

present limit for unmanned

missions. These methods already

have been used in arctic regions,

close to North Pole, which seems to

be extremely low in aerosol den­
sity, probably due to the scar­
city of life in that area.